

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 December 2000 (14.12.2000)

PCT

(10) International Publication Number
WO 00/75298 A2

(51) International Patent Classification⁷: C12N 15/00,
15/63, C07K 14/47, 16/00, C12Q 1/68, G01N 33/68

(21) International Application Number: PCT/US00/15344

(22) International Filing Date: 1 June 2000 (01.06.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/137,412 3 June 1999 (03.06.1999) US
60/147,500 5 August 1999 (05.08.1999) US
60/147,501 5 August 1999 (05.08.1999) US
60/147,542 5 August 1999 (05.08.1999) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:

US	60/137,412 (CIP)
Filed on	3 June 1999 (03.06.1999)
US	60/147,500 (CIP)
Filed on	5 August 1999 (05.08.1999)
US	60/147,501 (CIP)
Filed on	5 August 1999 (05.08.1999)
US	60/147,542 (CIP)
Filed on	5 August 1999 (05.08.1999)

(71) Applicant (for all designated States except US): INCYTE GENOMICS, INC. [US/US]; 3160 Porter Drive, Palo Alto, CA 94304 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HODGSON, David, M. [US/US]; 567 Addison Avenue, Palo Alto, CA 94301 (US). LINCOLN, Stephen, E. [US/US]; 725 Sapphire Street, Redwood City, CA 94061 (US). RUSSO, Frank, D. [US/US]; 1583 Courdillaeras Road, Redwood City, CA 94062 (US). SPIRO, Peter, A. [US/US]; Apt. B16, 3875 Park Boulevard, Palo Alto, CA 94306 (US). BANVILLE, Steven, C. [US/US]; 604 San Diego Avenue, Sunnyvale, CA 95086 (US). BRATCHER, Shawn, R. [US/US]; 550 Ortega Avenue #B321, Mountain View, CA 94040 (US). DUFOUR, Gerard, E. [US/US]; 5327 Greenridge

Road, Castro Valley, CA 94552-2619 (US). COHEN, Howard, J. [US/US]; 3272 Cowper Street, Palo Alto, CA 94306-3004 (US). ROSEN, Bruce, H. [US/US]; 177 Hanna Way, Menlo Park, CA 94025 (US). CHALUP, Michael, S. [US/US]; Apt. 6, 183 Acalanes Drive, Sunnyvale, CA 94086 (US). HILLMAN, Jennifer, L. [US/US]; 230 Monroe Drive #12, Mountain View, CA 94040 (US). JONES, Anissa, Lee [US/US]; 445 South 15th Street, San Jose, CA 95112 (US). YU, Jimmy, Y. [US/US]; 37330 Portico Terrace, Fremont, CA 94536-7901 (US). GREENAWALT, Lila, B. [US/US]; 1596 Ballantree Way, San Jose, CA 95118-2106 (US). PANZER, Scott, R. [US/US]; 965 East El Camino, #621, Sunnyvale, CA 94087 (US). ROSEBERRY, Ann, M. [US/US]; 725 Sapphire Street, Redwood City, CA 94061 (US). WRIGHT, Rachel, J. [NZ/US]; 339 Anna Way, Mountain View, CA 94043 (US). DANIELS, Susan, E. [GB/US]; 136 Seale Avenue, Palo Alto, CA 94301 (US).

(74) Agents: HAMLET-COX, Diana et al.; Incyte Genomics, Inc., 3160 Porter Drive, Palo Alto, CA 94304 (US).

(81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MOLECULES FOR DISEASE DETECTION AND TREATMENT

(57) Abstract: The present invention provides purified disease detection and treatment molecule polynucleotides (mddt). Also encompassed are the polypeptides (MDDT) encoded by mddt. The invention also provides for the use of mddt, or complements, oligonucleotides, or fragments thereof in diagnostic assays. The invention further provides for vectors and host cells containing mddt for the expression of MDDT. The invention additionally provides for the use of isolated and purified MDDT to induce antibodies and to screen libraries of compounds and the use of anti-MDDT antibodies in diagnostic assays. Also provided are microarrays containing mddt and methods of use.

Publ. No. WO 00/75298 A2

WO 00/75298 A2